# Chemical Release Investigation Kit & Template (CRIKT)
## For Local Health Departments

**CHEMICAL**

<table>
<thead>
<tr>
<th>Acetone</th>
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**TRADE NAME(S)**

| Dimethyl ketone, 2-propanone, Ketone propane, and Beta-ketopropane |

## PREPARING FOR THE INVESTIGATION

### Know the Agent

- Acetone is a colorless liquid with a distinct taste and smell.
  - Read about acetone in the Acetone Fact Sheet.
  - For additional information, visit: [www.atsdr.cdc.gov/substances/toxin substance.asp?toxid=1](http://www.atsdr.cdc.gov/substances/toxin substance.asp?toxid=1)
- Contact:
  - Public Health Preparedness & Response Branch (PHP&R): 888.820.0520.
- Print and review form:
  - Chemically Exposed Persons Line List.

## CONDUCTING THE INVESTIGATION

### Evaluate Release

- Define scale/scope of release (work with N.C. Emergency Management, HazMat, an Environmental Health Specialist at the local or state level, N.C. Department of Environment and Natural Resources [N.C. DENR], and U.S. Environmental Protection Agency [U.S. EPA] if applicable).

### Identify Route of Human Chemical Exposure

- Identify route of exposure:
  - Inhalation
  - Ingestion
  - Dermal (Skin)
  - Injection
### Describe Exposed Population

- Determine the following:
  - Geographic area affected.
  - Population affected (general population, employees, and residents).
  - How population exposed (in vicinity, inhalation, or direct contact).
  - Define cases within the exposed population.
  - Contact OEEB (919.707.5900) to assist in developing a risk assessment to be shared with officials.
  - Once completed, provide OEEB with the Chemical Exposed Person Line Listing.

### Implement Control Measures to Prevent Additional Exposures

- Decide on measures to protect citizens and the surrounding communities.
- The environmental health specialist will consult with OEEB to discuss next steps to ensure no additional individuals are exposed.
- Inform residents/businesses of the acetone release through local emergency notification system, local TV and radio. Important points to include:
  - Location of release.
  - Geographic area affected.
  - Shelter-in-place instructions.
  - Where to evacuate if needed.
  - Where to find shelter.
  - Where to seek medical care.
  - For more information, please listen to your local radio station or watch your local news channel.
- Work with your local incident management team and local health director to determine steps to be taken to re-enter residences/businesses.
  - The local incident management team will determine when
residences/businesses are acceptable for re-entry and alert the local health director, who will then participate in the final decision.
  - Your local health director will then communicate with the on-scene coordinator.
  - The on-scene coordinator will then communicate to the community when they are permitted to return home or to their place of employment.

### INVESTIGATION RESULTS

#### Case Finding
- During the course of the investigation, interview other exposed individuals for symptoms related to the acetone release.
  - Work with your local medical facilities, local incident management team and/or the first responders to compile the exposed persons’ information.
- Advise symptomatic individuals, especially children, to see their healthcare provider immediately for evaluation.
- Once interviews are complete, communicate with:
  - Local hospitals to determine total number injured, hospitalized, ED visits, and deceased.
  - N.C. DETECT, North Carolina’s state syndromic surveillance system for additional information: 919.843.2361.

#### Routine Precautions
- Communicate the following control measures with residents/business owners.
  - Open all windows once residences/businesses are re-entered.
  - Wash exposed skin with soap and water to remove any material that may have been in direct contact.
### Special Considerations

**Risk Communication**
- N.C. DHHS Communications Office 919.855.4840 is available to assist local health departments as needed.

### Additional Information

**Glossary of Terms**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>ATSDR</td>
<td>Agency for Toxic Substances &amp; Disease Registry</td>
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<tr>
<td>DENR</td>
<td>Department of Environment and Natural Resources</td>
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<tr>
<td>ED</td>
<td>Emergency Department</td>
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<tr>
<td>EHS</td>
<td>Environmental Health Specialist</td>
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<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
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<tr>
<td>OEEB</td>
<td>Occupational and Environmental Epidemiology Branch</td>
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<tr>
<td>PHP&amp;R</td>
<td>Public Health Preparedness &amp; Response</td>
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